

FIG. 1

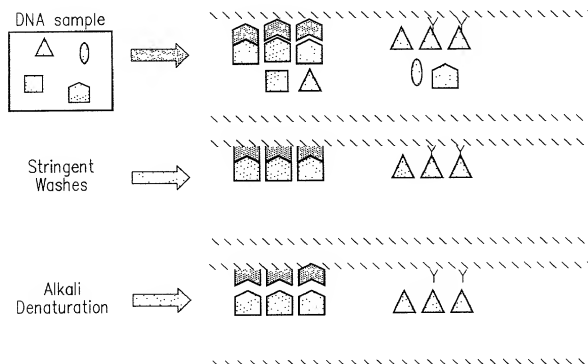


FIG. 2

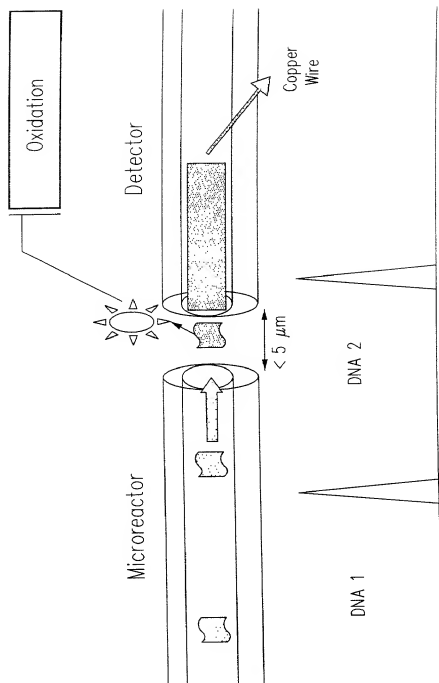
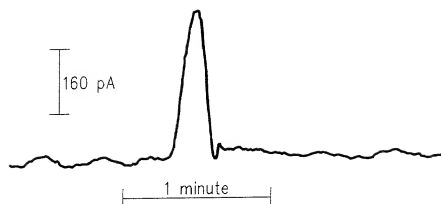


FIG. 3



Capillary DNA-biosensor with TB+HIV Probes Immobilized.
 Length of each probe zone = 1 cm. Distance between zones = 7 inches
 Elution of Target with TBE buffer, pH = 11, after 30 minute incubation
 Detection: Sinusoidal voltammetry with $40\text{ }\mu\text{m}$ Copper electrode
 2 Hz, 0-700 mVp-p sine wave. Response shown at 5th Harmonic.

FIG. 4

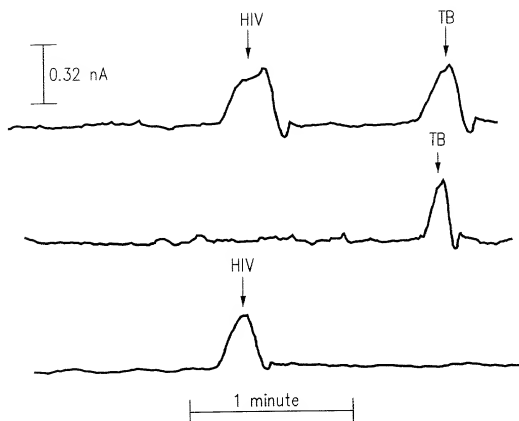


FIG. 5

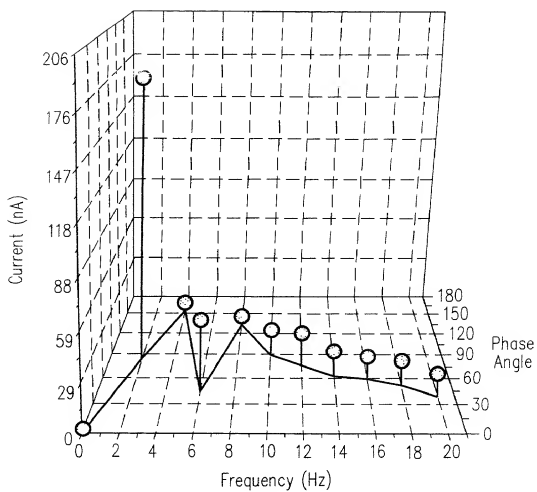


FIG. 6

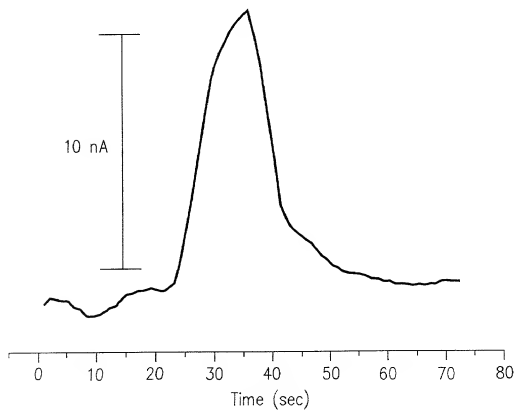


FIG. 7

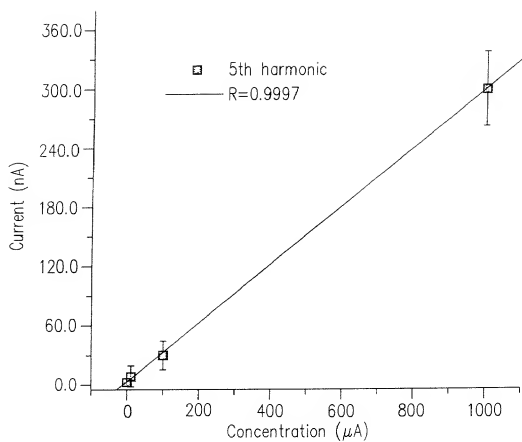


FIG. 8

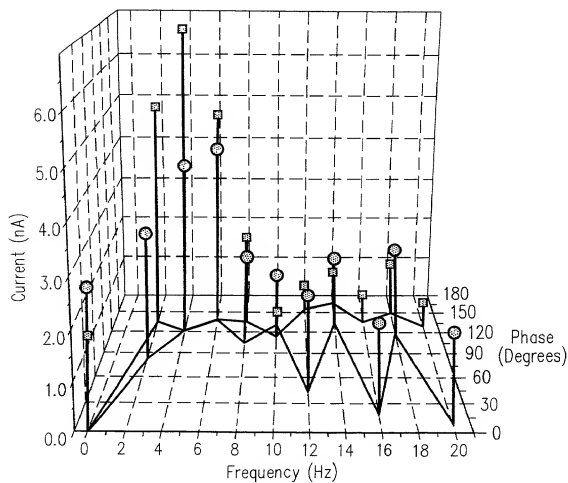


FIG. 9

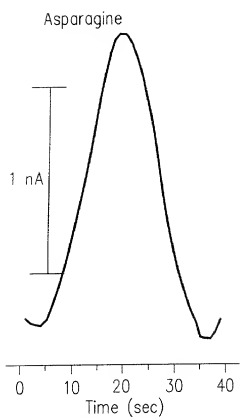


FIG. 10A

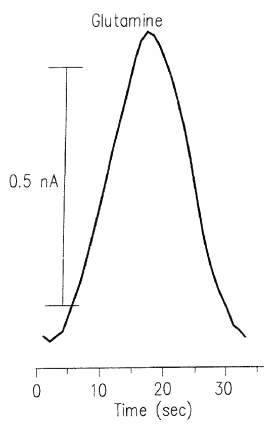


FIG. 10B

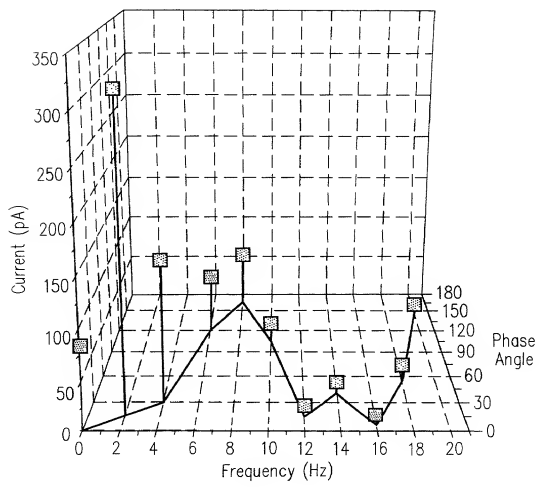


FIG. 11

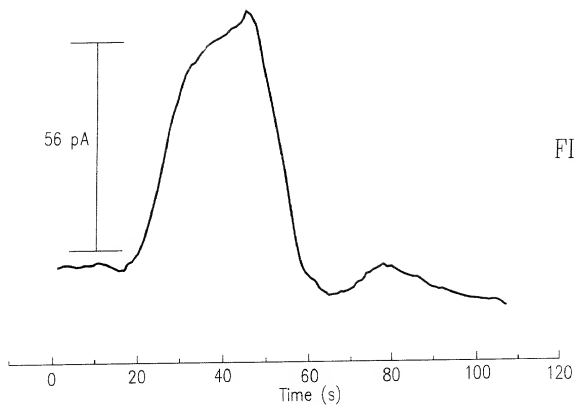


FIG. 12

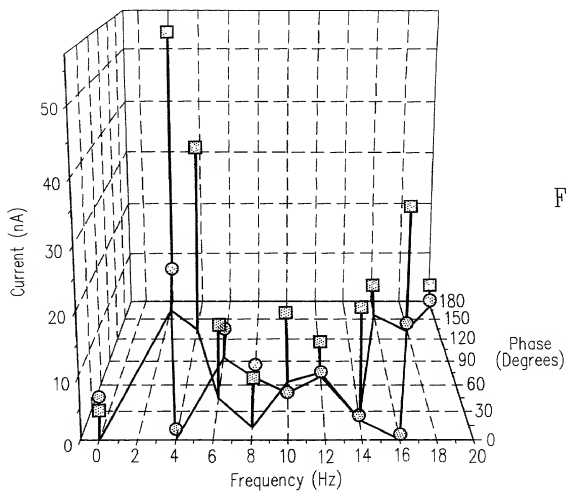


FIG. 13

FIG. 14A

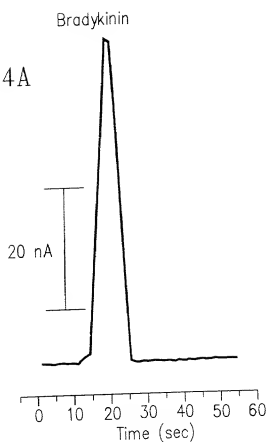
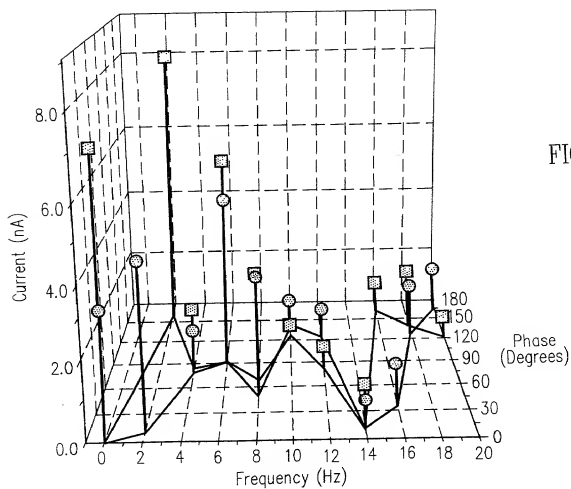
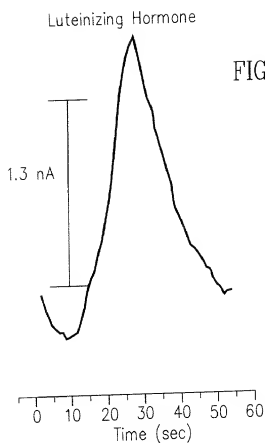


FIG. 14B



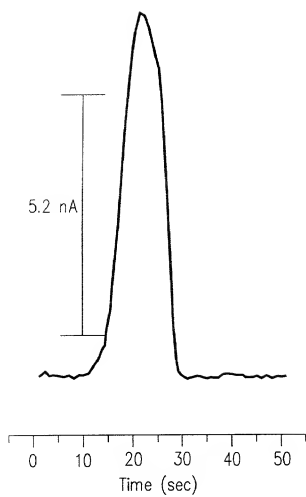


FIG. 16A

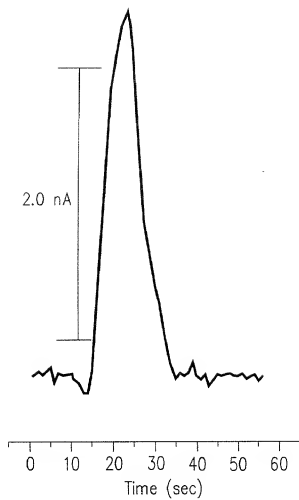


FIG. 16B